Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 140, No. 2 (1990) 441–444

Index to Volume 140

No. 1

S. Ilie, S. Jipa, D. Ilie, R. Setnescu, J. Paun, I. Mihalcea, A. Nicolescu (Bucharest, Romania)
Correlations between radiothermoluminescence and the catalytic properties of some active aluminas. A catalysis model 3

F. Šebesta, V. Štefula (Prague, Czechoslovakia)
Composite ion exchanger with ammonium molybdophosphate and its properties 15

D. Ravishankar (Pune, India)
Chemical effects induced by gamma-irradiated alkali halides in organic emulsions 23

S. F. Patil, N. S. Rajurkar, A. V. Borhade (Pune, India)
Diffusion of Co^{2+} ions in agar gel containing multielectrolyte systems: energy of activation and obstruction effect 31

H. Müller, I. Hagenlocher (Freiburg, FRG)
Chemical effects of nuclear transformations in mixed potassium hexahalogenometallates(IV), $K_2MX_nY_{6-n}$, II. 37

N. Matsuoka, T. Umata, M. Okamura, N. Shiraishi, N. Momoshima, Y. Takashima (Fukuoka, Japan)
Determination of technetium-99 from the aspect of environmental radioactivity 57

K. V. Ticknor, Y.-H. Cho (Pinawa, Manitoba, Canada and Choong-Nam, Korea)
Interaction of iodide and iodate with granitic fracture-filling minerals 75

A. Mannan, S. Waheed, I. H. Qureshi (Islamabad, Pakistan)
Concentration and distribution of toxic elements in rice and husk 91

F. Abdel-Rehim, A. F. Maged, M. A. Morsy, A. M. Hashad (Cairo, Beni-Suef and Fayoum, Egypt)
Muscle and plastic equivalent glass dosimeter for high-dose dosimetry 103

F. Helus, H. Gasper, S. Zeisler, W. Maier-Borst (Heidelberg, FRG)
An automated microprocessor controlled system for the production of a new type of ^{81}Rb–^{81m}Kr generator 111

D. K. Bhattacharyya, N. C. Dutta, A. De (Calcutta, India)
Adsorption of several tracer cations and separation of ^{234}Th from ^{238}U and ^{113m}In from ^{119}Sn on tin dioxide 121

INDEX TO VOLUME 140

M. I. Dinator, J. R. Morales (Santiago, Chile)
Characterization of colour pigments in pre-Columbian Chilean potteries by PIXE elemental analysis 133

A. Kacperek, W. D. Morgan, A. Sivyer, J. Dutton, C. J. Evans (Swansea, UK)
The application of a pulsed fast neutron beam to partial body in vivo activation analysis of minerals and trace elements 141

S. N. Muddukrishna, D. V. S. Narasimhan, C. N. Desai (New Bombay, India)
A novel technique for the separation of ^{99m}Tc from ^{99}Mo 153

F. Rösch, T. Reimann, G. V. Buklanov, M. Milanov, V. A. Khalkin, R. Dreyer (Dubna, USSR and Dresden, GDR)
Electromigration of carrier-free radionuclides, XIV. 159

M. A. A. Al-Janabi, S. K. Khachadoorian, S. O. Mousa, Z. M. Yousif (Baghdad, Iraq)
Preparation of ^{113m}In and ^{99m}Tc-microaggregated human serum albumin for liver scanning 171

M. A. El-Absy (Cairo, Egypt)
Adsorption properties of charcoal impregnated with stannic chloride 177

I. Janovský, N. Kliman (Řež and Bratislava, Czechoslovakia)
Dosimetry for radiation processing of wire insulations by using the Alanine/ESR system 187

J. Akatsu, T. Kimura (Ibaraki-ken, Japan)
Extraction chromatography in the DHDECMP(XAD-4)–HNO_3 system 195

W. S. Lyon (Oak Ridge, USA)
Current status of neutron activation analysis and applied nuclear chemistry 205

Short Communications

A. G. C. Nair, A. V. R. Reddy, A. Ramaswami, Satya Prakash (Bombay, India)
Cumulative yields of short-lived xenon isotopes in the spontaneous fission of ^{252}Cf 215

Z. B. Alfassi (Beer Sheva, Israel)
On the use of ^{55}Co in nuclear medicine – its disadvantage and possible substitute 219

Bibliographic Collection

E. Bujdosó (Budapest, Hungary)
Analysis by absorption and scattering of radiation 227

No. 2

M. Krishnaratnam, K. R. Sudhakar Rao, B. Viswanathan, R. Ramaswamy (Madras, India)
Effect of gamma-irradiation on the catalyzed bromate oscillator 247

Eui-Hwan Hwang, Sun-Tae Hwnag (Taejon, Republic of Korea)
Determination of the leachability index of ^{137}Cs from cement solidified radioactive wastes 255

I. Salma, L. Almási, É. Zemplén-Papp (Budapest, Hungary)
Instrumental correction of time dependent counting losses in high rate gamma-ray spectrometry 263

D. R. Provance, M. D. Glascock, K. R. Applin (Columbia, MO and Rochester, NY, USA)
INAA of coals from the Midwestern USA, I. 271

D. R. Provance, M. D. Glascock, K. R. Applin (Columbia, MO and Rochester, NY, USA)
INAA of coals from the Midwestern USA, II. 285

N. Ajdačić, M. Martić (Belgrade, Yugoslavia)
Radionuclides in the ground layer of air 295

S. Aksoyoğlu (Villigen, Switzerland)
Cesium sorption on mylonite 301

H. M. Khan, M. S. Wahid (Peshawar, Pakistan)
Characterization of gamma-irradiated polymethyl methacrylate by viscometry 315

P. Tölgyessy (Bratislava, Czechoslovakia)
Use of high energy radiation in ^{e} decomposition and removal of organic water pollutants 323

J. J. LaBrecque, P. A. Rosales (Caracas, Venezuela)
A simple preparation of calibration curve standards of ^{134}Cs and ^{137}Cs by serial dilution of a standard reference material 331

N. Drndarski, D. Stojić, M. Župančič, S. Čupić (Beograd, Yugoslavia)
Determination of partition coefficients of metals in the Sava River environment 341

G. A. Akopov, A. P. Krinitsyn, A. F. Tsarenko (Leningrad, USSR)
Extraction of pertechnetate anion as a ligand in a cerium(IV) tributyl phosphate complex 349

A. I. Saleh, J. R. W. Woittiez, G. D. Wals, H. A. Das (Petten, The Netherlands)
Determination of Se(IV) in water by neutron activation analysis after coprecipitation of metal dibenzyldithiocarbamate with phenolphthalein 357

T. Oi, Y. Kikawada, T. Honda, T. Ossaka, H. Kakihana (Tokyo and Kanagawa, Japan)
Determination of the lanthanoids in a neutral hot spring water by neutron activation analysis 365

INDEX TO VOLUME 140

A. K. Jabbar, H. M. A. Karim, M. A. A. Al-Janabi (Baghdad, Iraq)
Preparation of Sn-β-alanine: a new freeze-dried kit to be labelled with ^{99m}Tc for liver scintigraphy 379

H. A. Das (Amsterdam and Petten, The Netherlands)
The use of standards for quality control in activation analysis 387

H. D. Gesser, S. Ahmed (Winnipeg, Manitoba, Canada)
The extraction of uranium from acidic solutions by Adogen impregnated open cell polyurethane foam sponge 395

V. Živčić, M. J. Herak (Zagreb, Yugoslavia)
Monooctyl-α-(4-carboxyanilino)benzylphosphonic acid as a new reagent for extraction and separation of lead(II) and bismuth(III) 409

J. O. Dziegielewski, R. Grzybek, R. Gil-Bortnowska (Katowice, Poland)
Radiation-catalytic reduction of the $-NNH_2$ group in $[Mo(NNH_2)(HSO_4)(dppe)_2]HSO_4$ in methanol solution 415

A. Jowko, M. Forys, E. Bartkiewicz (Siedlce, Poland)
Time resolved study of the UV continuum of xenon 421

Bibliographic Collection

E. Bujdosó (Budapest, Hungary)
Environmental radiochemistry and radioactivity 425

Index to Volume 140 441

Journal of Radioanalytical and Nuclear Chemistry, Articles, Vol. 140, No. 2 (1990) 445–448

Author Index to Volume 140

ABDEL-REHIM, F., MAGED, A. F., MORSY, M. A., HASHAD, A. M.: Muscle and plastic equivalent glass dosimeter for high-dose dosimetry, 103

AHMED, S., *see* GESSER, H. D., 395

AJDAČIĆ, N., MARTIĆ, M.: Radionuclides in the ground layer of air, 295

AKATSU, J., KIMURA, T.: Extraction chromatography in the DHDECMP(XAD-4)–HNO_3 system, 195

AKOPOV, G. A., KRINITSYN, A. P., TSARENKO, A. F.: Extraction of pertechnetate anion as a ligand in a cerium(IV) tributyl phosphate complex, 349

AKSOYOĞLU, S.: Cesium sorption on mylonite, 301

ALFASSI, Z. B.: On the use of ^{55}Co in nuclear medicine – its disadvantage and possible substitute, 219

AL-JANABI, M. A. A., KHACHADOORIAN, S. K., MOUSSA, S. O., YOUSIF, Z. M.: Preparation of ^{113m}In and ^{99m}Tc-microaggregated human serum albumin for silver scanning, 171

AL-JANABI, M. A. A., *see* JABBAR, A. K., 379

APPLIN, K. R., *see* PROVANCE, D. R., 271, 285

BARTKIEWICZ, E., *see* JOWKO, A., 421

BHATTACHARYYA, D. K., DUTTA, N. C., DE, A.: Adsorption of several trace cations and separation of ^{234}Th from ^{238}U and ^{113m}In from ^{113}Sn on tin dioxide, 121

BORHADE, A. V., *see* PATIL, S. F., 31

BUJDOSÓ, E.: Analysis by absorption and scattering of radiation, 227

BUJDOSÓ, E.: Environmental radiochemistry and radioactivity, 425

BUKLANOV, G. V., *see* RÖSCH, F., 159

CHO, Y.-H., *see* TICKNOR, K. V., 75

ČUPIĆ, S., *see* DRNDARSKI, N., 341

DAS, H. A.: The use of standards for quality control in activation analysis, 387

DAS, H. A., *see* SALEH, A. I., 357

DE, A., *see* BHATTACHARYYA, D. K., 121

DESAI, C. N., *see* MUDDUKRISHNA, S. N., 153

DINATOR, M. I., MORALES, J. R.: Characterization of colour pigments in pre-Columbian Chilean potteries by PIXE elemental analysis, 133

DREYER, R., *see* RÖSCH, F., 159

DRNDARSKI, N., STOJIĆ, D., ŽUPANČIĆ, M., ČUPIĆ, S.: Determination of partition coefficients of metals in the Sava River environment, 341

DUTTA, N. C., *see* BHATTACHARYYA D. K., 121

DUTTON, J., *see* KACPEREK, A., 141

DZIEGIELEWSKI, J. O., GRZYBEK, R., GIL-BORTNOWSKA, R.: Radiation-cata-

lytic reduction of the $-NNH_3$ group in $[Mo(NNH_2)(HSO_4)(dppe)_2]HSO_4$ in methanol solution, 415

EL-ABSY, M. A.: Adsorption properties of charcoal impregnated with stannic chloride, 177

EVANS, C. J., *see* KACPEREK, A., 141

FORYS, M., *see* JOWKO, A., 421

GASPER, H., *see* HELUS, F., 111

GESSER, H. D., AHMED, S.: The extraction of uranium from acidic solutions by Adogen impregnated open cell polyurethane foam sponge, 395

GIL-BORTNOWSKA, R., *see* DZIEGIELEWSKI, J. O., 415

GLASCOCK, M. D., *see* PROVANCE, D. R., 271, 285

GRZYBEK, G., *see* DZIEGIELEWSKI, J. O., 415

HAGENLOCHER, I., *see* MÜLLER, H., 37

HASHAD, A. M., *see* ABDEL-REHIM, F., 103

HELUS, F., GASPER, H., ZEISLER, S., MAIER-BORST, W.: An automated microprocessor controlled system for the production of a new type of $^{81}Rb-^{81m}Kr$ generator, 111

HERAK, M. J., *see* ŽIVČIĆ, V., 409

HONDA, T., *see* OI, T., 365

HWANG, EUI-HWAN; HWANG, SUN-TAE: Determination of the leachability index of ^{137}Cs from cement solidified radioactive wastes, 255

HWANG, SUN-TAE, *see* HWANG, EUI-HWAN, 255

ILIE, D., *see* ILIE, S., 3

ILIE, S., JIPA, S., ILIE, D., SETNESCU, R., PAUN, J., MIHALCEA, I., NICOLESCU, A.: Correlations between radiothermoluminescence and the catalytic properties of some active aluminas. A catalysis model, 3

JABBAR, A. K., KARIM, H. M. A., AL-JANABI, M. A. A.: Preparation of Sn-β-alanine: a new freeze-dried kit to be labelled with ^{99m}Tc for liver scintigraphy, 379

JANOVSKÝ, I., KLIMAN, N.: Dosimetry for radiation processing of wire insulations by using the Alanine/ESR system, 187

JIPA, S., *see* ILIE, S., 3

JOWKO, A., FORYS, M., BARTKIEWICZ, E.: Time resolved study of the UV continuum of xenon, 421

KACPEREK, A., MORGAN, W. D., SIVYER, A., DUTTON, J., EVANS, C. J.: The application of a pulsed fast neutron beam to partial body in vivo activation analysis of minerals and trace elements, 141

KAKIHANA, H., *see* OI, T., 365

KARIM, H. M. A., *see* JABBAR, A. K., 379

KHACHADOORIAN, S. K., *see* AL-JANABI, M. A. A., 171

KHALKIN, V. A., *see* RÖSCH, F., 159

KHAN, H. M., WAHID, M. S.: Characterization of gamma-irradiated polymethyl methacrylate by viscometry, 315

KIKAWADA, Y., *see* OI, T., 365

KIMURA, T., *see* AKATSU, J., 195

KLIMAN, N., *see* JANOVSKÝ, I., 187

KRINITSYN, A. P., *see* AKOPOV, G. A., 349

KRISHNARATNAM, M., SUDHAKAR RAO, K. R., VISWANATHAN, B., RAMASWAMY,

R.: Effect of gamma-irradiation on the catalyzed bromate oscillator, 247

LABRECQUE, J. J., ROSALES, P. A.: A simple preparation of calibration curve standards of ^{134}Cs and ^{137}Cs by serial dilution of a standard reference material, 331

LYON, W. S.: Current status of neutron activation analysis and applied nuclear chemistry, 205

MAGED, A. F., *see* ABDEL-REHIM, F., 103

MAIER-BORST, W., *see* HELUS, F., 111

MANNAN, A., WAHEED, S., QURESHI, I. H.: Concentration and distribution of toxic elements in rice and husk, 91

MARTIĆ, M., *see* AJDAČIĆ, N., 295

MATSUOKA, N., UMATA, T., OKAMURA, M., SHIRAISHI, N., MOMOSHIMA, N., TAKASHIMA, Y.: Determination of technetium-99 from the aspect of environmental radioactivity, 57

MIHALCEA, I., *see* ILIE, S., 3

MILANOV, M., *see* RÖSCH, F., 159

MOMOSHIMA, N., *see* MATSUOKA, N., 57

MORALES, J. R., *see* DINATOR, M. I., 133

MORGAN, W. D., *see* KACPEREK, A., 141

MORSY, M. A., *see* ABDEL-REHIM, F., 103

MOUSSA, S. O., *see* AL-JANABI, M. A. A., 171

MUDDUKRISHNA, S. N., NARASIMHAN, D. V. S., DESAI, C. N.: A novel technique for the separation of ^{99m}Tc from ^{99}Mo, 153

MÜLLER, H., HAGENLOCHER, I.: Chemical effects of nuclear transformations in mixed potassium hexahalogeno-metallates(IV) $K_2MX_nY_{6-n}$, II., 37

NAIR, A. G. C., REDDY, A. V. R., RAMASWAMI, A., PRAKASH, SATYA: Cumulative yields of short-lived xenon isotopes in the spontaneous fission of ^{252}Cf, 215

NARASIMHAN, D. V. S., *see* MUDDUKRISHNA, S. N., 153

NICOLESCU, A., *see* ILIE, S., 3

OI, T., KIKAWADA, Y., HONDA, T., OSSAKA, T., KAKIHANA, H.: Determination of the lanthanoids in a neutral hot spring water by neutron activation analysis, 365

OKAMURA, M., *see* MATSUOKA, N., 57

OSSAKA, T., *see* OI, T., 365

PATIL, S. F., RAJURKAR, N. S., BORHADE, A. V.: Diffusion of Co^{2+} ions in agar gel containing multielectrolyte systems: energy of activation and obstruction effect, 31

PAUN, I., *see* ILIE, S., 3

PRAKASH, SATYA, *see* NAIR, A. G. C., 215

PROVANCE, D. R., GLASCOCK, M. D., APPLIN, K. R.: INAA of coals from the Midwestern USA, I., 271

PROVANCE, D. R., GLASCOCK, M. D., APPLIN, K. R.: INAA of coals from the Midwestern USA, II., 285

QURESHI, I. H., *see* MANNAN, A., 91

RAJURKAR, N. S., *see* PATIL, S. F., 31

RAMASWAMY, A., *see* NAIR, A. G. C., 215

RAMASWAMY, R., *see* KRISHNARATNAM, M., 247

RAVISHANKAR, D.: Chemical effects induced by gamma-irradiated alkali halides in organic emulsions, 23

REDDY, A. V. R., *see* NAIR, A. G. C., 215

AUTHOR INDEX

REIMANN, T., *see* RÖSCH, F., 159

ROSALES, P. A., *see* LABRECQUE, J. J., 331

RÖSCH, F., REIMANN, T., BUKLANOV, G. V., MILANOV, M., KHALKIN, V. A., DREYER, R.: Electromigration of carrier-free radionuclides, XIV., 159

SALEH, A. I., WOITTIEZ, J. R. W., WALS, G. D., DAS, H. A.: Determination of Se(IV) in water by neutron activation analysis after coprecipitation of metal dibenzyldithiocarbamate with phenolphthalein, 357

SALMA, I., ZEMPLÉN-PAPP, É.: Instrumental correction of time dependent counting losses in high rate gamma-ray spectrometry, 263

ŠEBESTA, F., ŠTEFULA V.: Composite ion exchanger with ammonium molybdophosphate and its properties, 15

SETNESCU, R., *see* ILIE, S , 3

SHIRAISHI, N. *see* MATSUOKA N., 57

SIVYER, A., *see* KACPEREK, A., 141

ŠTEFULA, V., *see* ŠEBESTA, F., 15

STOJIĆ, D., *see* DRNDARSKI, N., 341

SUDHAKAR RAO, K. R., *see* KRISHNARATNAM, M., 247

TAKASHIMA, Y., *see* MATSUOKA, N., 57

TICKNOR, K. V., CHO Y.-H.: Interaction of iodide and iodate granitic facture-filling minerals, 75

TÖLGYESSY, P.: Use of high energy radiation in decomposition and removal of organic water pollutants, 323

TSARENKO, A. F., *see* AKOPOV, G. A., 349

UMATA, T., *see* MATSUOKA N , 57

VISWANATHAN, B., *see* KRISHNARATNAM, M., 247

WAHEED, S., *see* MANNAN A., 91

WAHID, M. S., *see* KHAN, H. M., 315

WALS, G. D., *see* SALEH, A. I., 357

WOITTIEZ, J. R. W., *see* SALEH, A. I., 357

YOUSIF, Z. M., *see* AL-JANABI, M. A. A., 171

ZEISLER, S., *see* HELUS, F., 111

ZEMPLÉN-PAPP, É., *see* SALMA, I., 263

ŽIVČIĆ, V., HERAK, M. J.: Monooctyl-α-(4-carboxyanilino)benzylphosphonic acid as a new reagent for extraction and separation of lead (II) and bismuth (III), 409

ŽUPANČIĆ, M., *see* DRNDARSKI, N., 341